

**METHODS AND APPARATUSES OF ESTIMATING THE POSITION OF A
MOBILE USER IN A SYSTEM OF SATELLITE DIFFERENTIAL NAVIGATION**

5

ABSTRACT OF THE DISCLOSURE

Disclosed are methods and apparatuses for estimating the floating ambiguities associated with the measurement of the carrier signals of a plurality of global positioning satellites, such that the floating ambiguities are preferably consist for a plurality of
10 different time moments. In one aspect of the invention, a real-time iterative matrix refactorization process is provided which reduces processor load and retains history of the measurements.